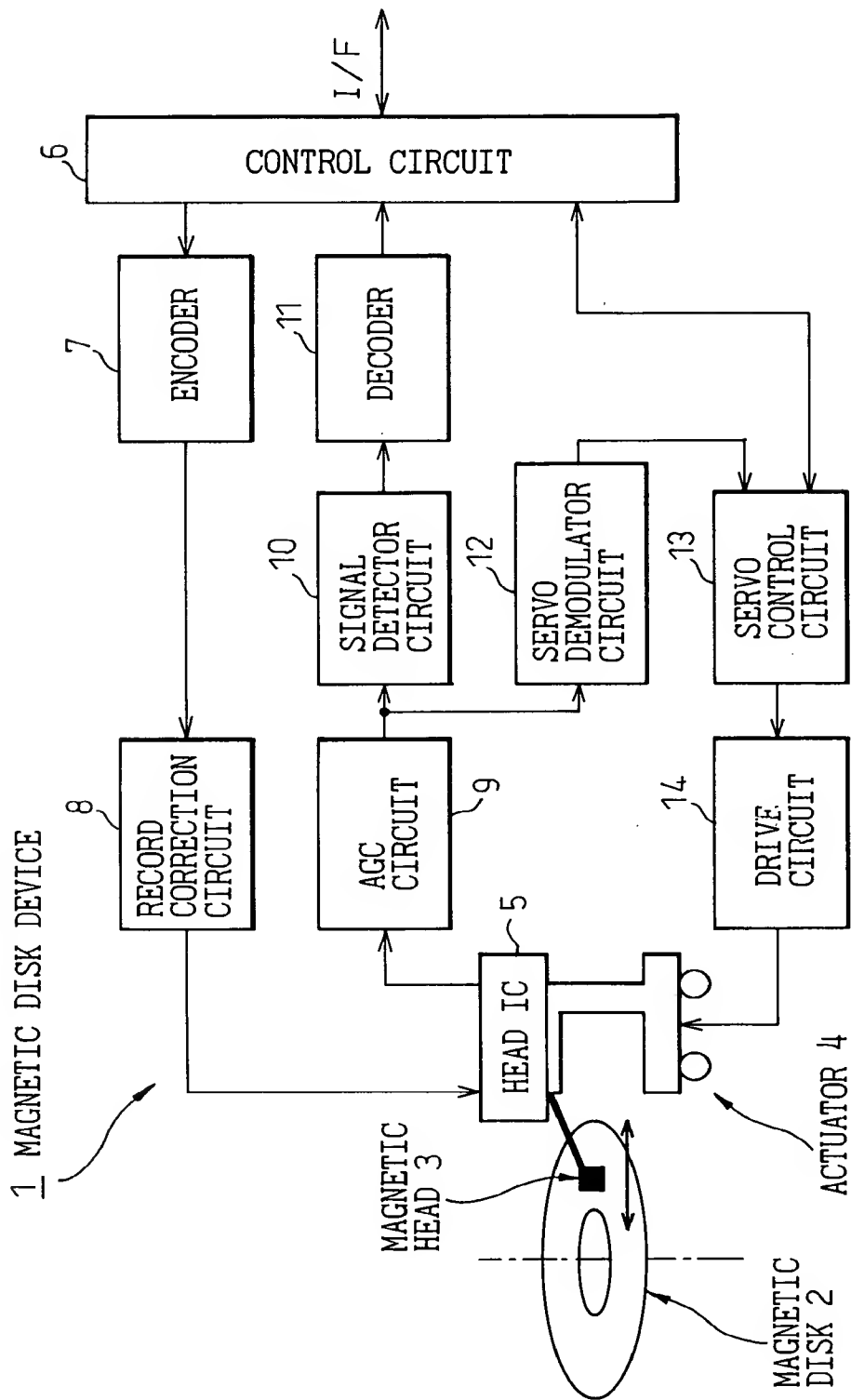


Fig.1



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Fig.2

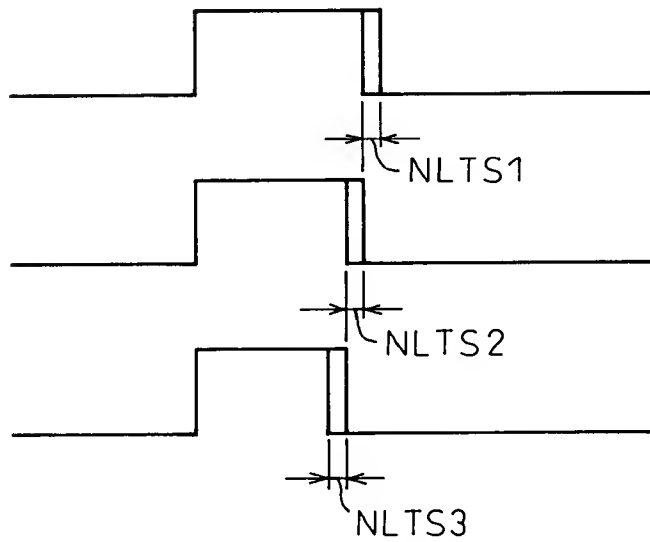
RECORDED
 CODES

0 0 1 1 0 0 0

I_w

H_x

Φ



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Fig.3

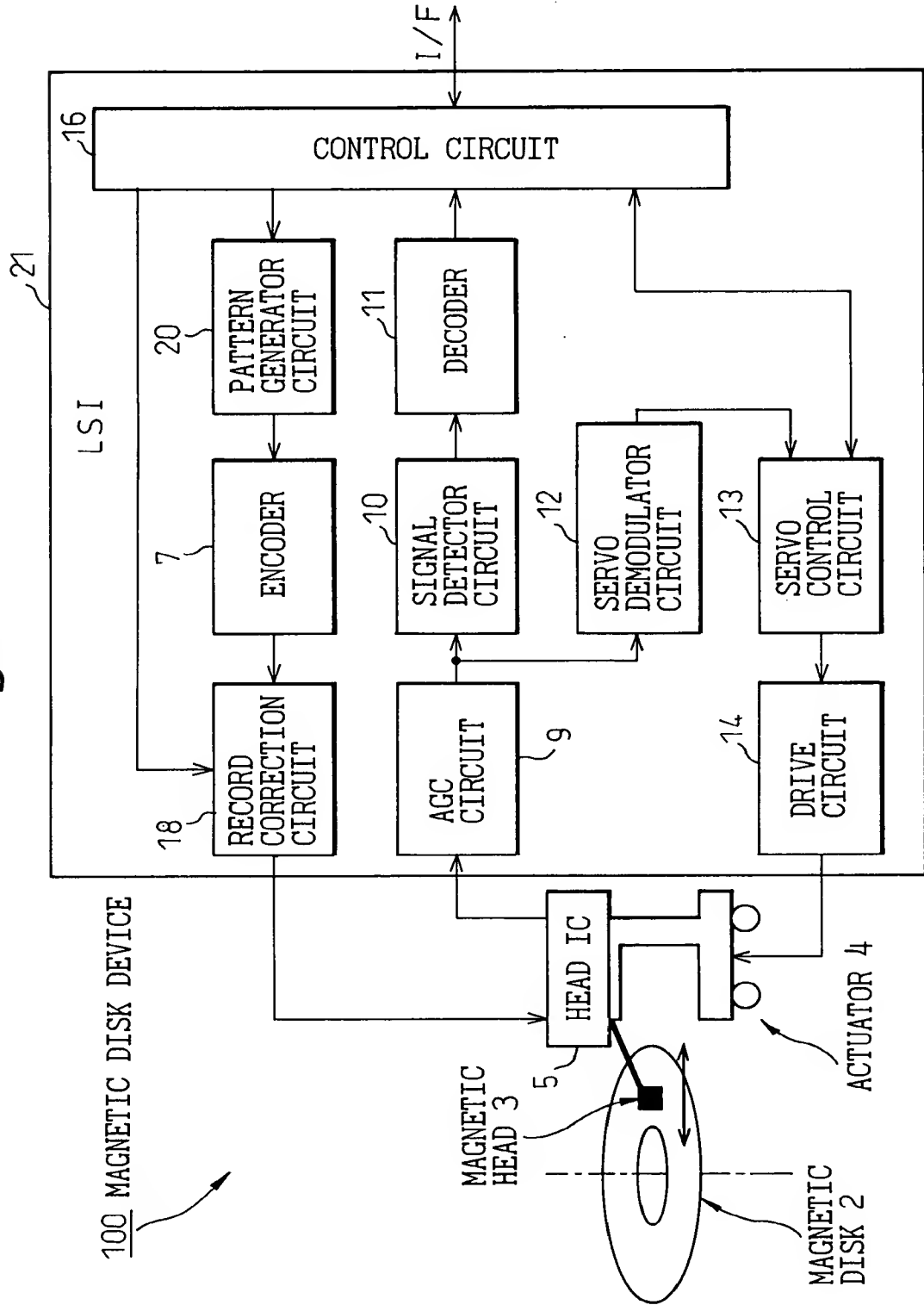


FIG. 3

Fig.4

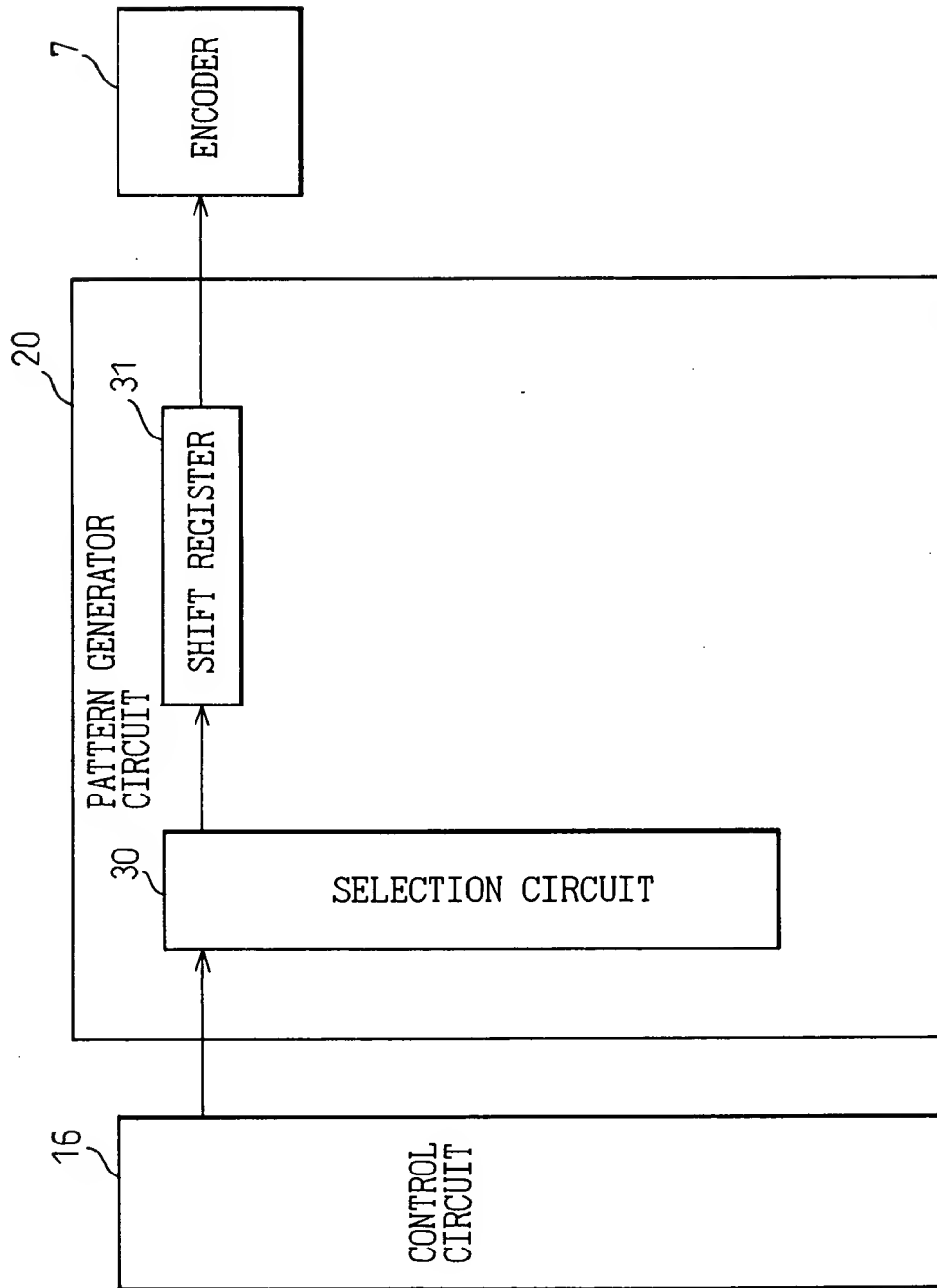
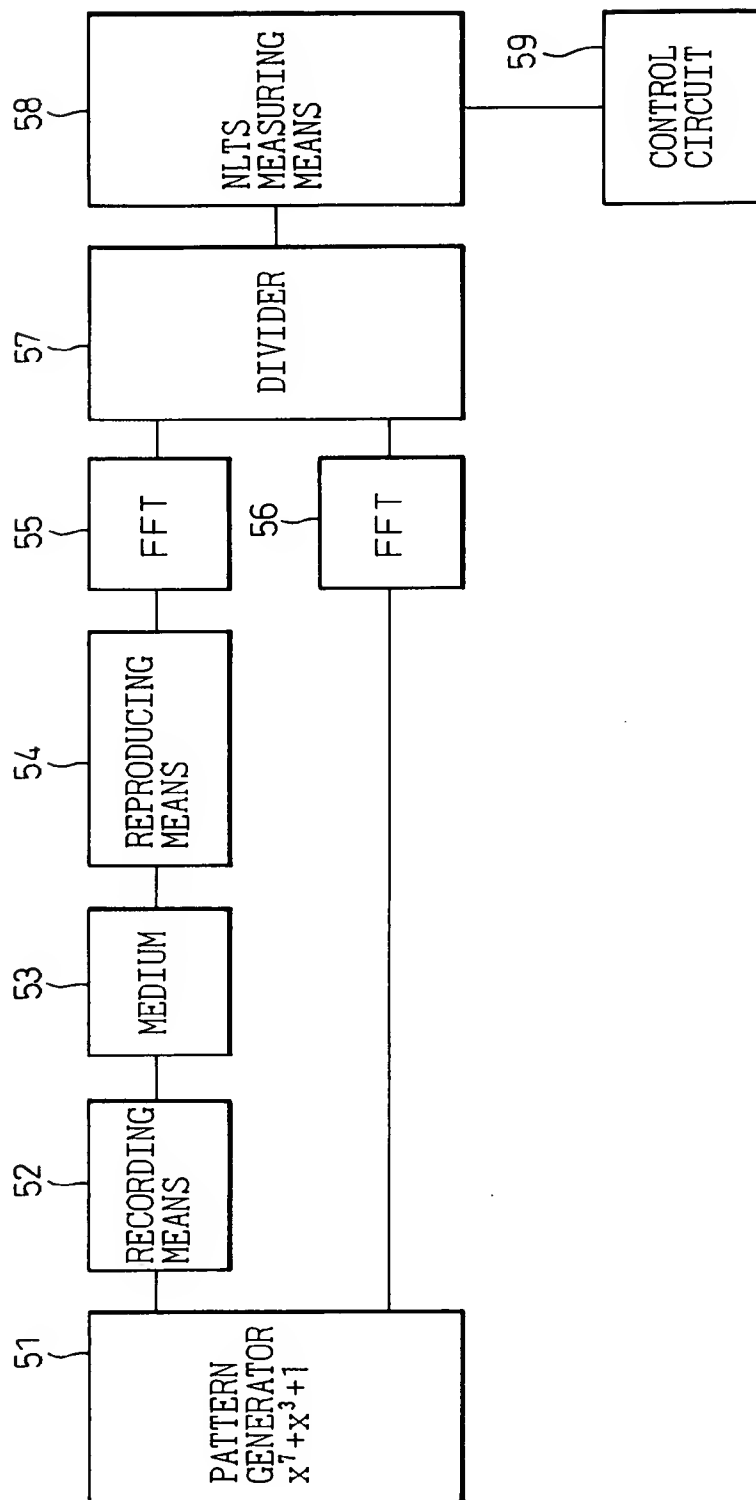
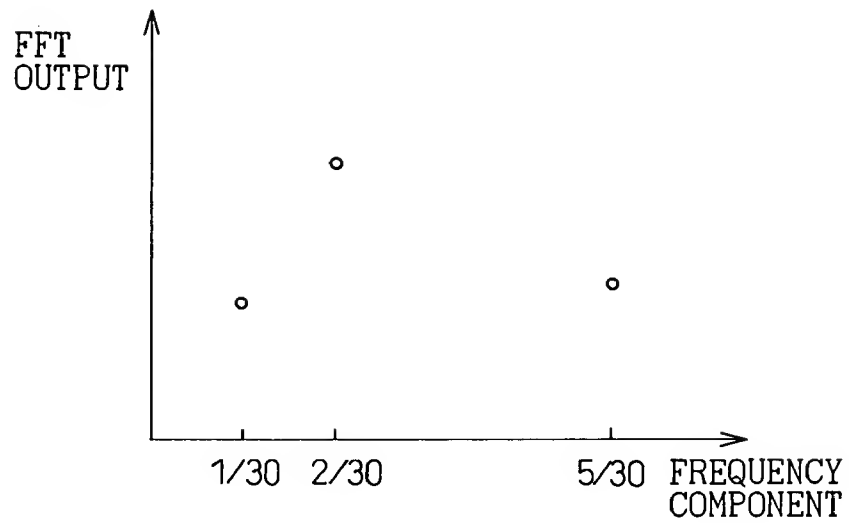


Fig.5



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Fig.6



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METHOD OF MEASURING NON-LINEARITY . . .
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Greer, Burns & Crain, Ltd. (B. Joe Kim)
Ref. No. 2803.66013
Sheet 7 of 18 (312) 360 0080

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Fig. 7A

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Fig.7B

*1

NLTS	ABSOLUTE ERROR BY ASYM
AVERAGE BIPOLAR NLTS VALUE OF DIBIT	-5%
AVERAGE BIPOLAR NLTS VALUE OF TRIBIT	+5%
AVERAGE BIPOLAR NLTS VALUE OF 2T PATTERN	-5%
UNIPOLAR NLTS	LESS THAN 5%

Fig.8A

*2

KIND OF NLTS MEASUREMENT	V5pat	V5ref
DIBIT (ORIGINAL)	$[1+\exp(-j * \text{PI}/3 * \text{ow})] * [1+\exp(-j * \text{PI}/3 * 2) - \exp(-j * \text{PI}/3 * (1-\text{nltS}))]$	$[1+\exp(-j * \text{PI}/3 * \text{ow})]$
TRIBIT (BIPOLAR)	$[1+\exp(-j * \text{PI}/3 * \text{ow})] * [1+\exp(-j * \text{PI}/3 * (2-\text{nltS}))]$	
2T (BIPOLAR)	$[1+\exp(-j * \text{PI}/3 * \text{ow})] * [1+\exp(-j * \text{PI}/3 * 2) - \exp(-j * \text{PI}/3 * (2-\text{nltS}))]$	
HTS (O/WNLTS)	$[1-\exp(-j * \text{PI}/3 * \text{ow})] * \exp(-j * \text{PI}/3)$	

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Fig.8B

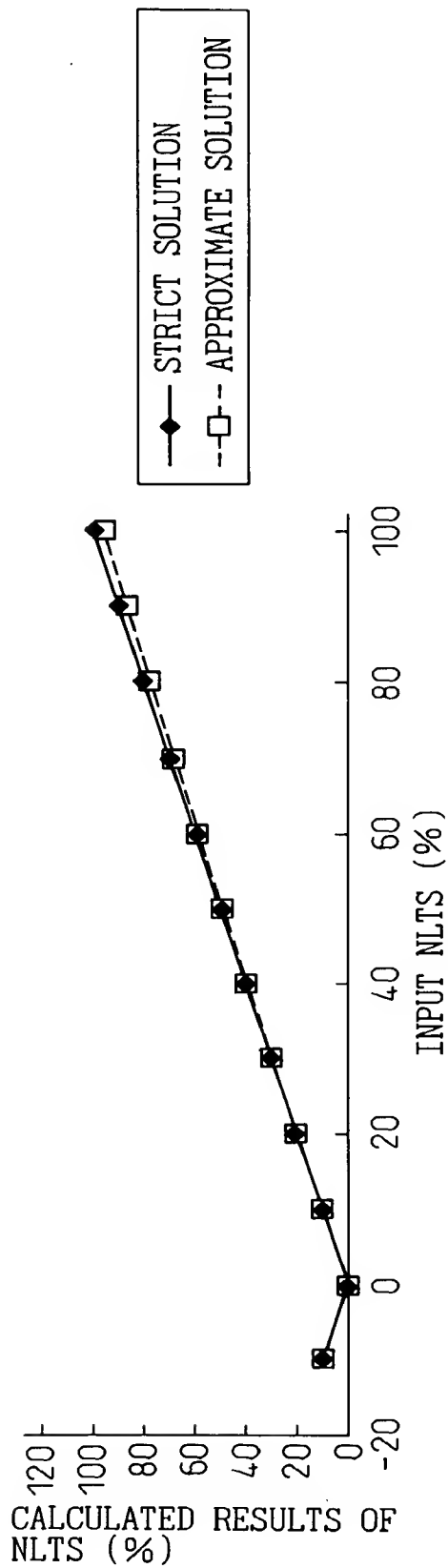
*2

(V5pat/V5ref)=Vab	FORMULAS FOR NLTS CALCULATION	
	STRICT SOLUTION	APPROXIMATE SOLUTION
$ 1+\exp(-j * \text{PI}/3 * \text{nlts}) $	$\text{acos}[(2-\text{Vab}^2)/2] * 3/\text{PI}$	$\text{Vab} * 3/\text{PI}$
$ 1+\exp[-j * \text{PI}/3 * (2-\text{nlts})] $	$2-\text{acos}[(\text{Vab}^2-2)/2] * 3/\text{PI}$	-
$ 1-\exp[-j * \text{PI}/3 * (1-\text{nlts})] $	$1-\text{acos}[(2-\text{Vab}^2)/2] * 3/\text{PI}$	$1-\text{Vab} * 3/\text{PI}$
$ 1-\exp(-j * \text{PI}/3 * \text{ow}) / 1+\exp(-j * \text{PI}/3 * \text{ow}) $	$\text{acos}[(1-\text{Vab}^2)/(1+\text{Vab}^2)] * 3/\text{PI}$	$\text{Vab} * 6/\text{PI}$

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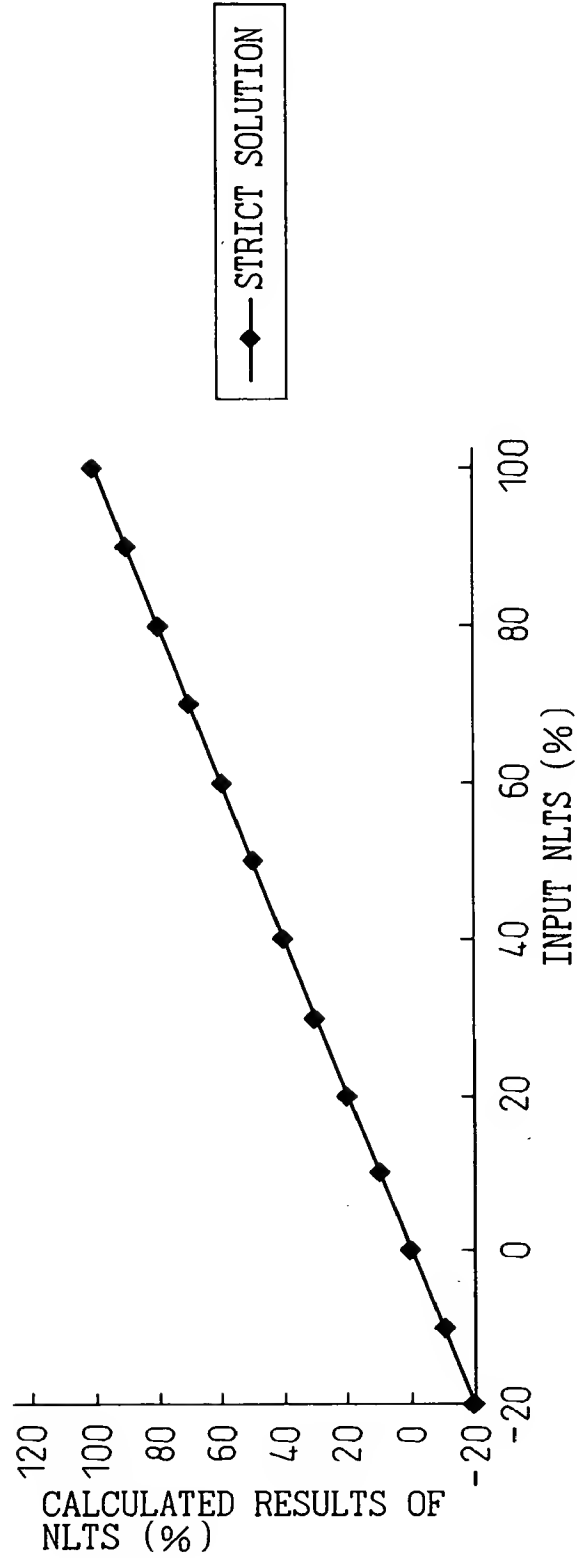
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Fig.9



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Fig.10

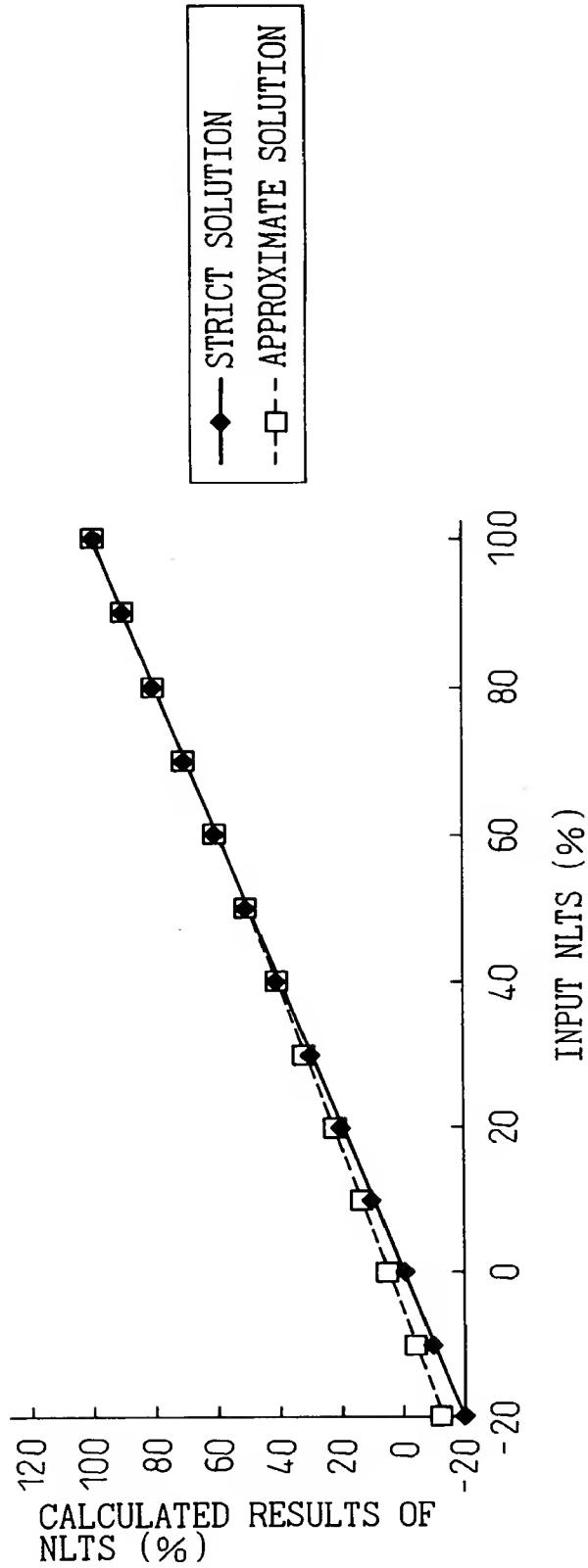


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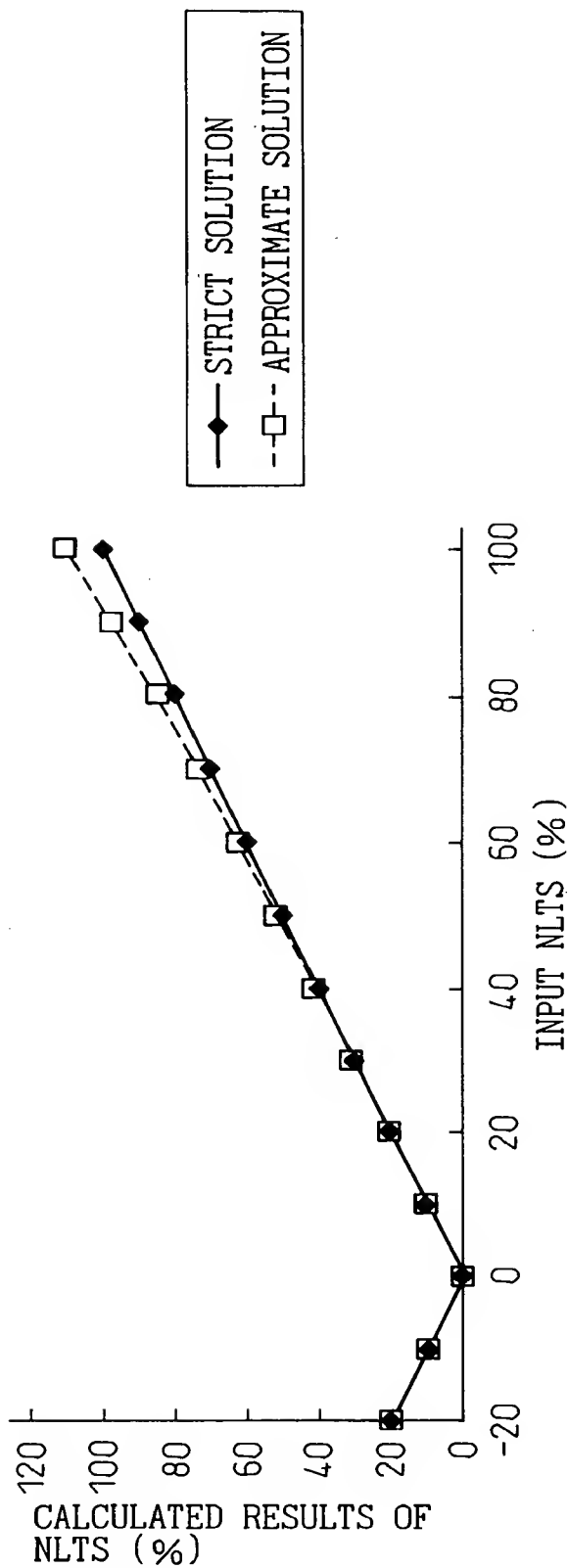
Fig.11



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Fig.12



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Fig.13A

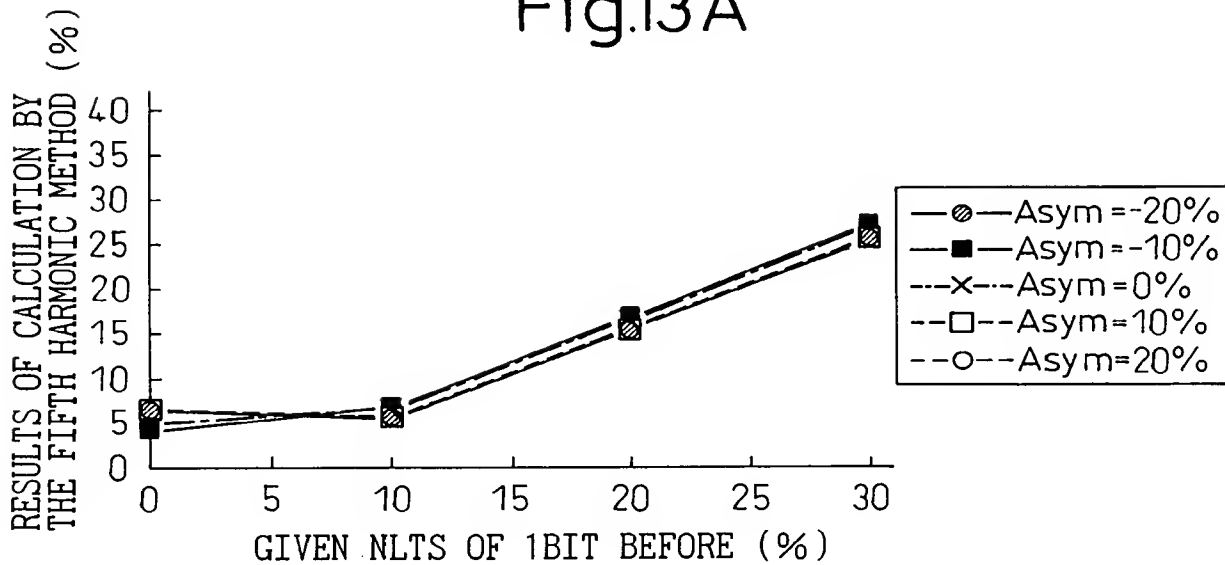
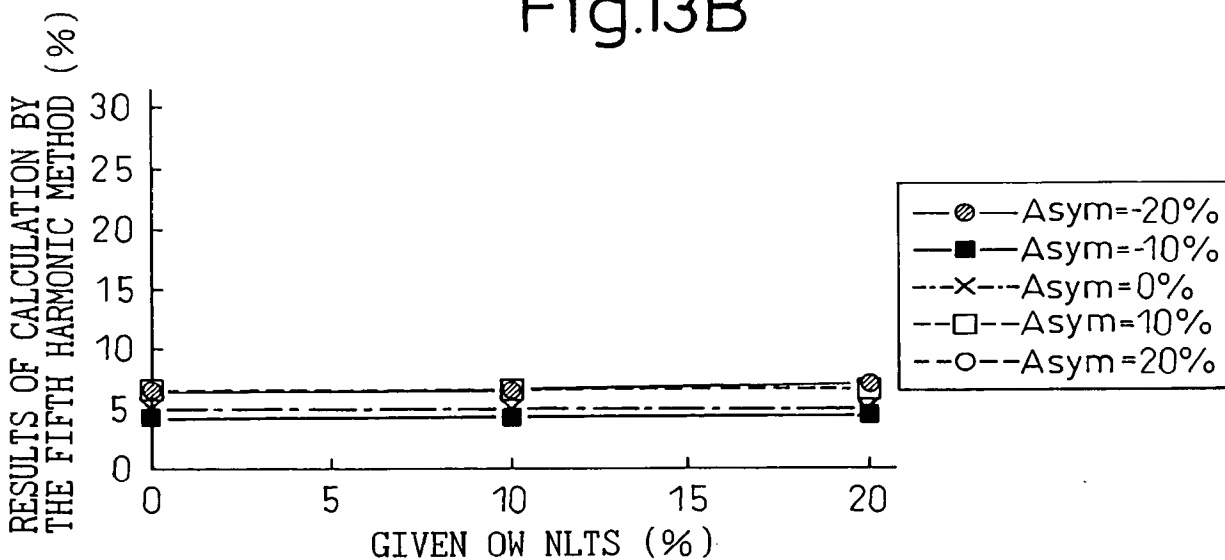


Fig.13B



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Fig.14A

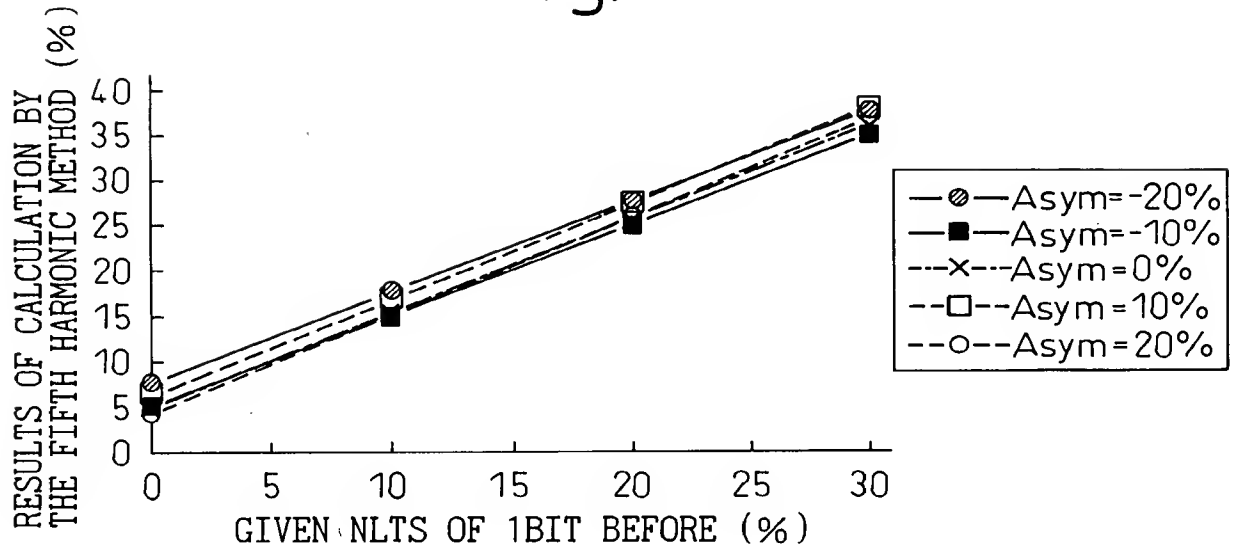
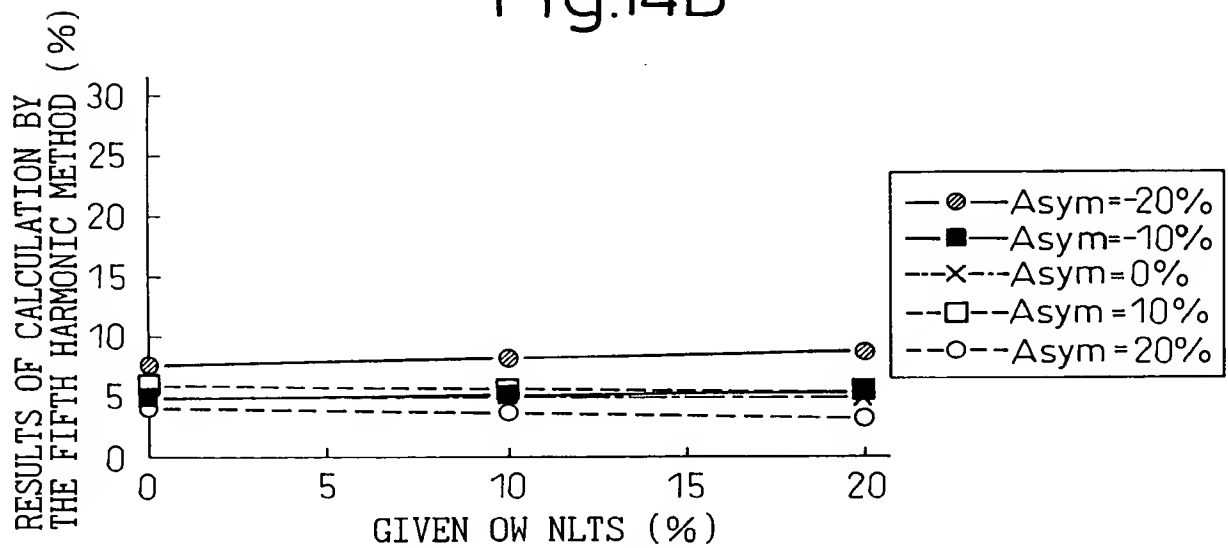


Fig.14B



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Fig.15A

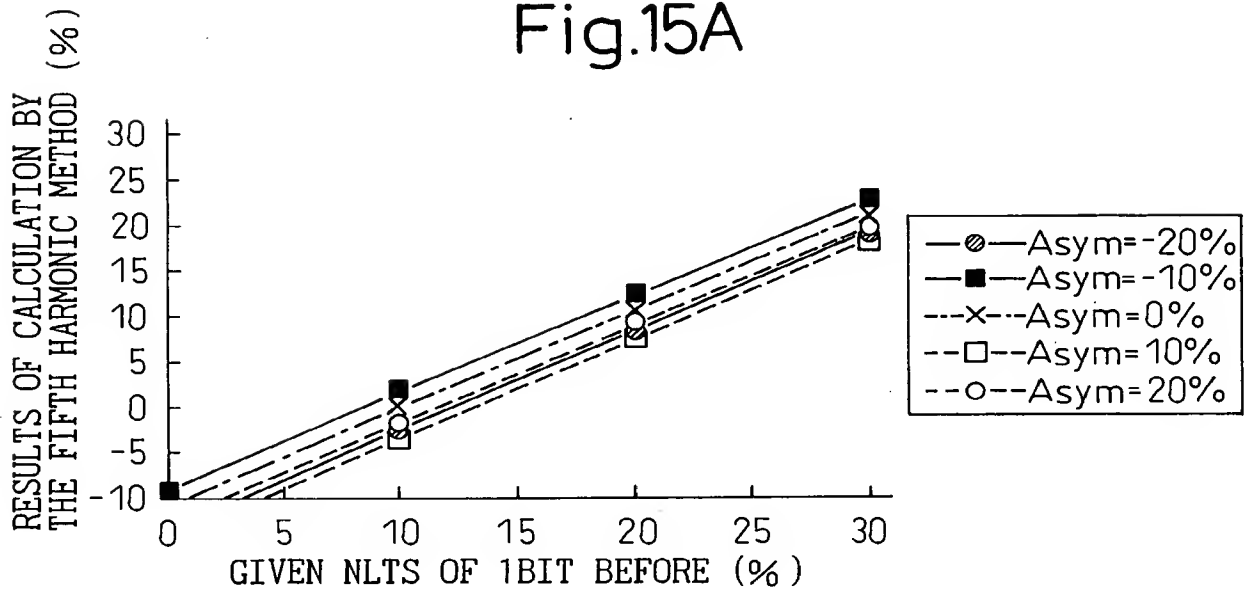
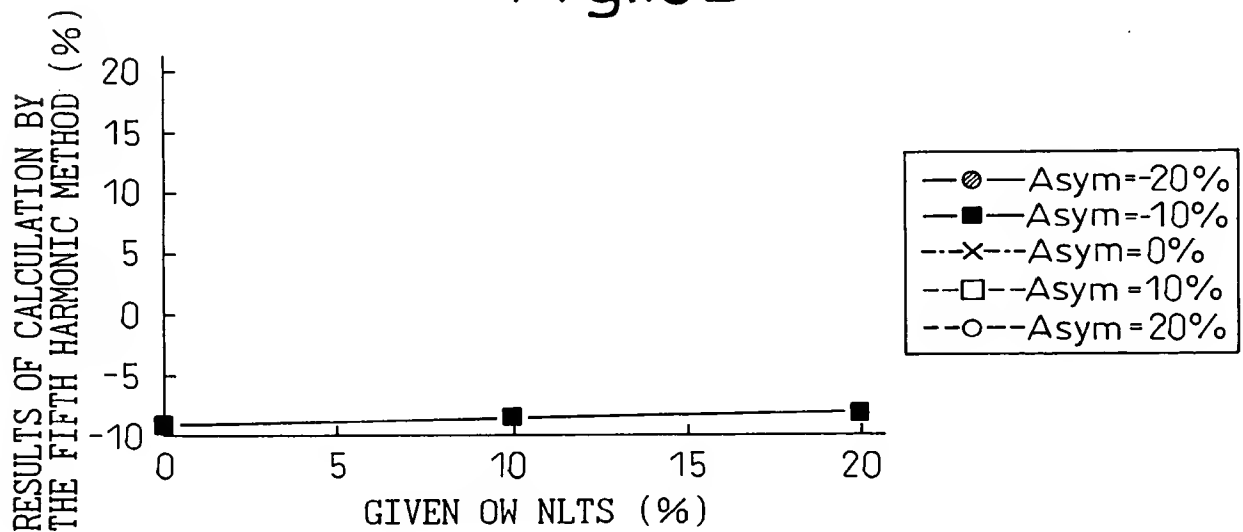


Fig.15B



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Fig.16A

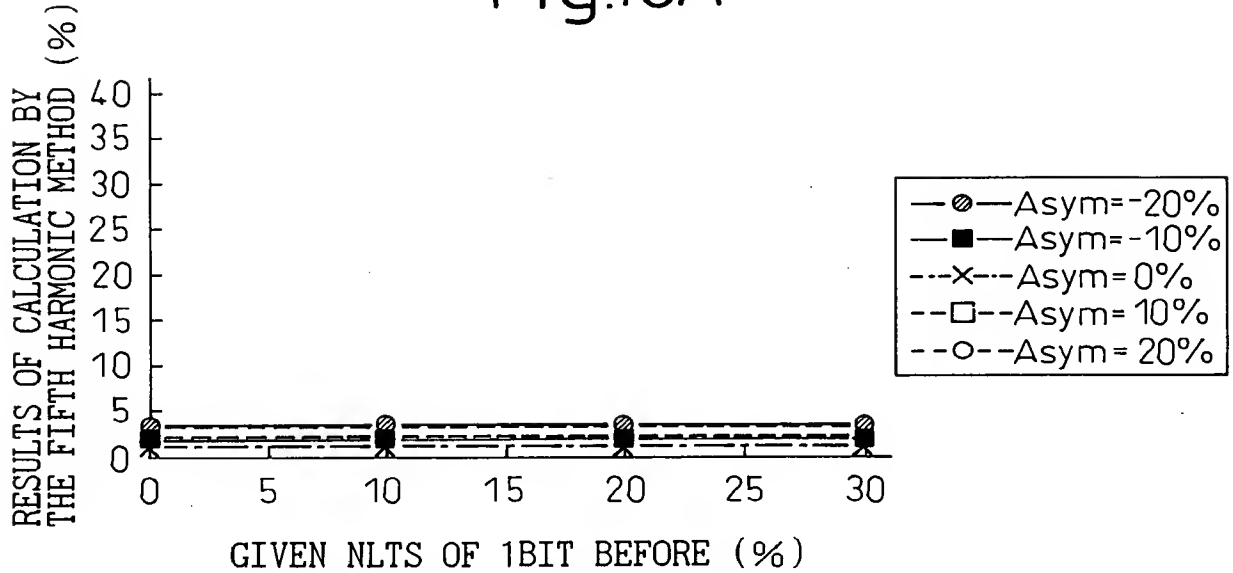


Fig.16B

